

Winter Road Operations

Snow and Ice Control

- Debrief last season
- Pre-season preparations
- Research / implement new innovations / technologies
 - Pretreatment Salt Brine
 - Backup SOC
- Strategic planning
- Administrative readiness
- Communications
- Physical readiness

★ Debrief Last Season

- Examine efficiencies
- Examine shortcomings
- Review GIS (missed streets)
- Rate contractors
- Assess communications
- Consider feedback (negative and positive)
- Develop a “Self Rating”

Preseason Preparations

- Restock salt and sand
- Restore / maintain equipment
- Train new employees (Snow Plow Best Practices)
- Procure contractual resources (manpower, equipment, materials and services)
- Investigate new technologies
- Review / initiate efficiencies

Logistics

- DOT clears 5085 lane miles
- 593 La. Mi. Emergency Routes
- 364 La. Mi. Salt Routes
- 4128 La. Mi. Neighborhood Plow Routes
- County Resources
 - 200-225 Personnel
 - 175 pieces of equipment
- Contractor Resources to Supplement County
 - 220-225 contract personnel
 - 200-225 pieces of plowing/sanding equipment
 - If needed 50-75 additional large pieces with operators

Key Initiatives

- Plow route efficiencies
 - Increased equipment resources: Bethesda, Colesville, Gaithersburg East, Gaithersburg West and Silver Spring Depots
- Coordination Transit Services
- Coordination with MCFRS
- Local weather forecasting
- Resource leveling
- Storm Operations Center (SOC)
 - Enhanced communications – internal and external

Key Initiatives

- AccuWeather® and WeatherBug® local forecasting and monitoring
- Real-time streaming traffic conditions
- Real-time pavement conditions
- SOC follows National Incident Management System (NIMS) protocol
- Interface with the Emergency Operations Center (EOC)
- GIS locations of schools, hospitals and fire stations

New Initiatives

- Locations of senior centers and at risk populations
- Fiber-optic Communications
- WeatherBug[®] Weatherstation (Poolesville)
- Pretreatment with liquid Salt Brine

Liquid Anti-icing (Salt Brine)

- What is it?
 - Salt and water mixture
 - Prevention of bond between frozen precipitation and pavement surface
 - Proactive
 - Improves service levels
 - Reduces applications of salt

Liquid Anti-icing (Salt Brine)



Liquid Anti-icing (Salt Brine)

- How is it used?
 - Apply to the roadway surface before storms
 - Provides enough salt to prevent formation of black ice and frost

Liquid Anti-icing (Salt Brine)

- What are the benefits?
 - Less material used
 - Reduces amount of salt applied
 - Increased traffic safety at lower cost

Storm Operations Center Strategic Planning

- Real time “intelligence”
- Resource allocation based on actual “real time” conditions
- Utilization of 195 traffic cameras streaming road conditions
- Increased effectiveness and efficiencies

Total Storm Management

- Pre-storm planning to post storm debriefing
- Use of traditional materials: salt and sand; salt brine
- Traditional decision-making based on intelligence, communications, weather forecast and visual observations

Total Storm Management

- Blends art and science of snow and ice control
- Cost-effective, high level of service
- Mitigates impact of winter operations on highway system
- Mitigates economic impacts on the metropolitan region

Administrative Readiness

- Snow Summit
- Snow Book - digital copies available
- Enhanced communications
- Procurement of essential elements
- Contractors
- Salt and sand - currently at capacity
- Food
- New initiatives

Communications

- Important element of the program
- National level (NIMS)
- State level (MEMA)
- Local level (EOC)
- Emergency Management Group (EMG)
- Council of Governments (COG)
- MC Homeland Security
- Maryland State Highway Administration (SHA)

Recycling & Refuse Collection

For information about changes to County-provided recycling and trash collection, call 240-777-6410, or visit www.montgomerycountymd.gov/solidwaste.

Potholes

Work crews have thousands of miles of pavement to patrol, so they appreciate helpful calls from residents giving the exact location of the pothole, with a specific address or intersection. Crews will repair potholes on County-maintained roads promptly. Just call 240-777-6000 or online at: www.montgomerycountymd.gov, then click on the Department of Transportation, and under Seasonal Information, Pothole Repair.

Phone Numbers & Websites

Montgomery County's Website:

www.montgomerycountymd.gov/snow

RIDE ON 240-777-RIDE (7433)
www.rideonbus.com

Route changes are updated regularly and announced on the Transit Information phone line and on County Cable Channel 6. Or check Ride On's web site for detour information.

COMMUTER SERVICES 240-773-BWTW (2989)
You can obtain information on alternative transportation, including carpool, vanpool, transit options, transit passes and tokens.

METRO 202-637-7000
www.wmata.com

For general information about Metro schedules and routes, and their status during storms, call between 6:00 a.m. and 10:30 p.m. on weekdays, and from 8:00 A.M. to 10:30 P.M. on weekends, or visit their web site.

MONTGOMERY COUNTY

PUBLIC SCHOOLS 301-279-3673

You may check to see if schools are closed or school schedules are changed because of bad weather. However, the news is relayed over local radio and television stations immediately after the decision is made. You may also visit the County web site at www.montgomerycountymd.gov and click on "Winter Storm Information & Updates".

COMMUNITY USE OF

PUBLIC FACILITIES 240-777-2706

www.montgomerycountymd.gov/cupf

Community activities scheduled in schools or other County facilities are automatically canceled when public schools close early or for the entire day because of snow. Weekend or holiday cancellations are announced on local television and radio stations as soon as the decision is made. You can also get information on snow closings by calling, or by checking their website.

PUBLIC LIBRARIES 240-777-6500

If you wonder if the library is open, call. After the message announcing openings/closings in Montgomery County; press 1 for changes in scheduled programs and activities and then press 1 again for an up-to-date status, including closing times of branches, conditions of parking lots and how library fines will be handled.

MONTGOMERY COLLEGE

www.montgomerycollege.org

If classes are suspended because of snow, you will hear announcements on local radio and television stations. Please don't call the College to ask about school closings. If you don't hear anything on the radio or TV, assume the College is open.

Phone Directory

Division of Highway Services 240-777-6000

Ride On 240-777-RIDE (7433)

Commuter Services 240-773-BWTW (2989)

Metro 202-637-7000

Recycling & Refuse Collection 240-777-6410

Libraries 240-777-6500

Community Use of Public

Facilities 240-777-2706

Public Schools 301-279-3673

Public Information

County Cable Montgomery, Channel 6, continuously updates roadway conditions within the County.

For information about snow removal operations during a snowstorm, call the Division of Highway Services at 240-777-6000, or check the county's website at www.montgomerycountymd.gov/snow.



Montgomery County, Maryland
Department of Transportation
DIVISION OF HIGHWAY SERVICES

When It Snows ...



Isiah Leggett
County Executive

Printed in December 2009

When It Snows

When it snows, snow fighters concentrate on keeping the major County roads and primary neighborhood streets passable. These roads are cleared down to bare pavement as soon as possible after the storm is over.

Plowing generally begins when snow becomes 3 or more inches deep and the temperature indicates that there will be no melting. Even after plowing, snow that has been hard packed by traffic often remains on the street, where the County plows are unable to remove it completely. In this situation, a mixture of sand and salt is spread to provide adequate traction.

After the snow stops falling and after the major County roads and primary neighborhood streets are cleared, crews concentrate on clearing snow from all neighborhood streets and sanding as promptly as possible.

What You Can Expect When It Snows

- It takes about 16 hours following the end of a 3" snowfall to plow and/or treat every County road once.
- After a 10" snowfall, you can expect **major and primary County** roads to be cleared within 24 to 36 hours. At that time, one pass should have been made through neighborhood streets.
- After a 15" snowfall, our crews will complete this work in about 36 to 48 hours.
- After a 24" snowfall, our crews will complete the work in about 48 to 60 hours.
- However, the type of snow (wet or powdery) and the temperature and wind conditions following the storm can alter this schedule.

Please be patient! Streets are plowed according to their priority and reviewed at the end of each season. Snow fighters work around the clock until **all 4,726 miles of County-maintained streets** are passable. We will use a force of 200 employees, 180 contract personnel with 175 pieces of snow removal equipment, and we have available 35,500 tons of salt and sand to get the job done depending upon the severity of the storm.

County's Action Plan



1. Patrol at the start of the storm
2. Spot salt bridges and elevated roadways
3. Full-scale salt of all major County roads (arterial roads connecting subdivisions or business districts) and primary neighborhood streets (main collector streets through subdivisions)
4. Plow all major County roads
5. Plow all primary neighborhood streets and all other residential streets
6. Spot sand hills and intersections on residential streets

This plan's goal is to ensure that major and primary neighborhood routes are cleared to bare pavement as soon as possible. Secondary neighborhood streets cannot receive the same level of treatment, but will always be plowed and also spot sanded where necessary. Residents will be within 3 or 4 blocks of a fully treated roadway during the course of a storm, and will have complete vehicular access as soon as possible when the storm is over.

Snow Emergency Routes

Both the State of Maryland and Montgomery County have designated certain roads as SNOW EMERGENCY ROUTES, prominently marked with red and white signs. When the State and/or the County initiates the snow emergency plan, it is illegal to drive without snow tires, mud/snow radials or chains, or to park on these roads. Vehicles without snow tires or chains found blocking snow routes during an emergency may be ticketed and towed at the owner's expense. **State and County snow emergency plans may not be put into effect simultaneously**, so pay special attention to news broadcasts when announcements are made. State-maintained highways can be identified because they have posted route numbers.

Do's & Don'ts

- **If you have a driveway, use it.**
- **If you do not have a driveway, park as close to the curb as you can.** Park your car on the EVEN NUMBERED side of the street if possible. Move to the other side of the street after the plow has cleared it.
- To help avoid the frustration that occurs when a snowplow covers your driveway with snow after you have shoveled, stand facing the street and shovel snow to the right into the yard instead of into the street.

- Leave your car at home! Ride the subway or catch a bus. Every car left at home reduces the number of stranded vehicles that slow down snow control operations.
- If you must drive, equip your vehicle with snow tires or chains. Why risk getting stuck, damaging your car, blocking traffic and snow removal equipment or incurring towing and impoundment costs and inconvenience?
- A road that has been sanded is safer than one not sanded. Please do not pull out in front of trucks to get up a hill faster!
- **Cul-de-sacs:** One misplaced vehicle in a cul-de-sac may prevent it from being plowed.

Plowing & How You Can Help

Clearing driveways and entrances is the responsibility of the property owner. Commercial and multi-family property owners are responsible for clearing sidewalks at their properties.

Clearing Sidewalks

County law requires all residential and commercial property owners to clear their public sidewalks within 24 hours of the end of a snowstorm. All residents are strongly encouraged to be good neighbors by clearing the sidewalks in front of their homes, as well as assisting those who may not be physically able to do so.

Who Else Clears Snow?

All numbered (State-maintained) roads in the county are cleared by the Maryland State Highway Administration.

Other departments, outside agencies and governmental jurisdictions have responsibility for plowing. They include: DOT'S Transit Services Division (which will clear as many of its **5,000 highest ridership** shelters and bus stops as it can), the Montgomery County Board of Education, the Maryland-National Capital Park & Planning Commission, Metro, municipalities and homeowner's associations. Commercial parking lot owners plow their property and may not move snow into the street.

Emergencies

Call the Police and Fire Departments at 911 only in life-threatening emergencies or for emergency Fire and Rescue services. The Police and Fire Departments will contact the Division of Highway Services if an emergency vehicle needs assistance to maneuver on a snow or ice-covered street.

Physical Readiness

- Equipment serviced and ready to go
- Materials stockpiled
- Fleet Management on board
- Equipment inspections and calibrations of salt spreaders
- Route test runs
- Mock Snow Storm conducted on November 3rd, 2009

Coordinate Contractors' Work

- Coordination at the Depot level
- Contractors provided with updated plow maps and Inspection contacts
- Equipment inspections conducted at Depots on October 25th and November 1st
- Equipment pay rates determined

Storm Notifications

- Highway Services notified by Alert Montgomery, AccuWeather[®], National Weather Service, WeatherBug[®], and other sources such as national news
- Notifications vary 5 days out to less than 48 hours
- Response strategy and mobilization decisions based on forecasts and real time information

Storm Notifications

- Storm Notifications
- National notification from AccuWeather® (2,000 mile view; 3-5 days out)
- AccuWeather® Special Statement (1,000 mile view; 2-3-days out)
- AccuWeather® Alert (500 mile view; 36-48 hours out)
- AccuWeather® Warning (100 mile view; < 36 hours out)
- WeatherBug® (local “real-time” weather conditions)

<input type="checkbox"/> 1. Storm Alert <input checked="" type="checkbox"/> 2. Storm Warning <input type="checkbox"/> 3. Update to Storm Warning <input type="checkbox"/> 4. See Special Statement <input type="checkbox"/> 5. Previously Issued Remains in Effect		ACCU WEATHER® SNOW WARNING SERVICE™ 385 SCIENCE PARK RD., STATE COLLEGE, PA 16803 Joe H. Hayes, Ph.D., President Bob Adams, M.S., COO, S. Vice President	If you have questions, call (814) 233-8731
STORM WARNING Exclusively For MONTGOMERY COUNTY MD - DEPT. OF TRANSPORTATION Friday, 10-FEB-2006 Time: 12:13 PM From: GLM			
STORM ALERT A. Chance of a Storm <input type="checkbox"/> 6. Excellent <input type="checkbox"/> 7. Good <input type="checkbox"/> 8. Fair B. Estimated Start Time <input type="checkbox"/> 9. At _____ AM _____ <input type="checkbox"/> 10. At _____ PM _____ <input type="checkbox"/> 11. Any Rain before this start time will bring little or no accumulation. C. Storm Type <input type="checkbox"/> 12. Snow _____ inches <input type="checkbox"/> 13. Sleet <input type="checkbox"/> 14. Freezing Rain (Glaze) <input type="checkbox"/> 15. Rain Turning to Snow <input type="checkbox"/> 16. Snow Turning to Rain <input type="checkbox"/> 17. Snowing and Drifting <input type="checkbox"/> 18. Piling Operation D. Estimated Storm Duration <input type="checkbox"/> 19A. < 6 Hrs. <input type="checkbox"/> 19B. 6-12 Hrs. <input type="checkbox"/> 19C. 12-18 Hrs. <input type="checkbox"/> 19D. > 18 Hrs. E. Additional Comments	H. Storm Will End <input checked="" type="checkbox"/> 40. At 3:15 AM SLEET <input type="checkbox"/> 41. At _____ PM <input type="checkbox"/> 42. Timing Excellent <input checked="" type="checkbox"/> 43. Timing Good <input type="checkbox"/> 44. Timing Uncertain I. Snow and Ice Accumulation <input checked="" type="checkbox"/> 45. Snow Total: 8-12 inches <input type="checkbox"/> 46. Ice Total: _____ inches <input type="checkbox"/> 47. Additional Snow Accum. _____ <input type="checkbox"/> 48. Additional Ice Accum. _____ <input type="checkbox"/> 49. _____" by 4 PM Today <input type="checkbox"/> 50. _____" by 6 AM Tomorrow <input type="checkbox"/> 51. Two inches by _____ J. Snow Probability Potential <input type="checkbox"/> 52. _____% Chance of 2" or more <input checked="" type="checkbox"/> 53. _____% Chance of 4" or more <input checked="" type="checkbox"/> 54. _____% Chance of 6" or more <input checked="" type="checkbox"/> 55. _____% Chance of 12" or more <input type="checkbox"/> 56. _____% Chance of _____" or more K. Snow Type <input type="checkbox"/> 57. Very Dry <input checked="" type="checkbox"/> 58. Dry <input type="checkbox"/> 59. Wet <input type="checkbox"/> 60. Melting <input type="checkbox"/> 61. Wet Becoming Dry <input type="checkbox"/> 62. Dry Becoming Wet L. Drifting <input type="checkbox"/> 63. None <input checked="" type="checkbox"/> 64. Light <input type="checkbox"/> 65. Moderate <input type="checkbox"/> 66. Severe <input checked="" type="checkbox"/> 67. Becoming Moderate <input type="checkbox"/> 68. Becoming Severe M. Rain Type <input type="checkbox"/> 69. Severe Freeze (Below 28°) <input type="checkbox"/> 70. Freeze (28°-32°) <input type="checkbox"/> 71. Cold (32°-40°) <input type="checkbox"/> 72. Warm (Above 36°) <input type="checkbox"/> 73. Becoming Warm N. Freezing Rain Will Begin <input type="checkbox"/> 74. At _____ AM <input type="checkbox"/> 75. At _____ PM <input type="checkbox"/> 76. Timing Excellent <input type="checkbox"/> 77. Timing Good <input type="checkbox"/> 78. Timing Uncertain O. Effect of Rain <input type="checkbox"/> 79. Turn Snow to Sleet <input type="checkbox"/> 80. Wash Snow Away Slowly <input type="checkbox"/> 81. Wash Snow Away Quickly <input type="checkbox"/> 82. Melt Snow Slowly <input type="checkbox"/> 83. Melt Snow Quickly <input type="checkbox"/> 84. Localized Flooding	P. Temperatures and Winds <input checked="" type="checkbox"/> 86. SLEET 6 AM _____ Speed _____ 10 mph Noon _____ Gusts _____ 20 mph 4 PM _____ Direction _____ 10 PM _____ Becoming _____ Q. Temperatures and Winds <input checked="" type="checkbox"/> 86. SLEET 6 AM _____ Speed _____ 17 mph Noon _____ Gusts _____ 20 mph 4 PM _____ Direction _____ 10 PM _____ Becoming _____ R. Untreated Road Conditions <input checked="" type="checkbox"/> 87. Main Roads Snow Covered <input checked="" type="checkbox"/> 88. Main Roads Slushy "AT FIRST" <input type="checkbox"/> 89. Main Roads Icy <input type="checkbox"/> 90. Main Roads Icy in Spots <input type="checkbox"/> 91. Main Roads Wet <input checked="" type="checkbox"/> 92. Secondary Roads Snow Covered <input type="checkbox"/> 93. Secondary Roads Slushy <input type="checkbox"/> 94. Secondary Roads Icy <input type="checkbox"/> 95. Secondary Roads Icy in Spots <input type="checkbox"/> 96. Secondary Roads Wet S. Special Problems <input type="checkbox"/> 97. Wet Roads May Freeze <input type="checkbox"/> 98. Snow Wet Freeze <input type="checkbox"/> 99. Rapid Change to Colder <input type="checkbox"/> 100. Long on Bridges <input type="checkbox"/> 101. Long at Intersections <input type="checkbox"/> 102. Heavy Snow will Begin <input type="checkbox"/> 103. Heavy Snow will End T. Weather Following Storm <input type="checkbox"/> 104. Runway - Insignificant <input type="checkbox"/> 105. Runway - Little or No Accum. <input type="checkbox"/> 106. Snow/Purges - Stop to Follow <input type="checkbox"/> 107. Freezing Drizzle <input type="checkbox"/> 108. Hard Freeze <input type="checkbox"/> 109. Rapid Freezing After 4 PM <input type="checkbox"/> 110. Prolonged Melting <input type="checkbox"/> 111. Thick Fog <input type="checkbox"/> 112. Thick Tomorrow <input type="checkbox"/> 113. Thick <input type="checkbox"/> 114. Thick Today/Freezing Tonight <input type="checkbox"/> 115. Dry and Night Below 32° <input checked="" type="checkbox"/> 116. Dry Above 32° Night Below 32° <input checked="" type="checkbox"/> 117. Very Windy <input checked="" type="checkbox"/> 118. Drifting to Continue <input type="checkbox"/> 119. Next Storm Possible U. Additional Comments	

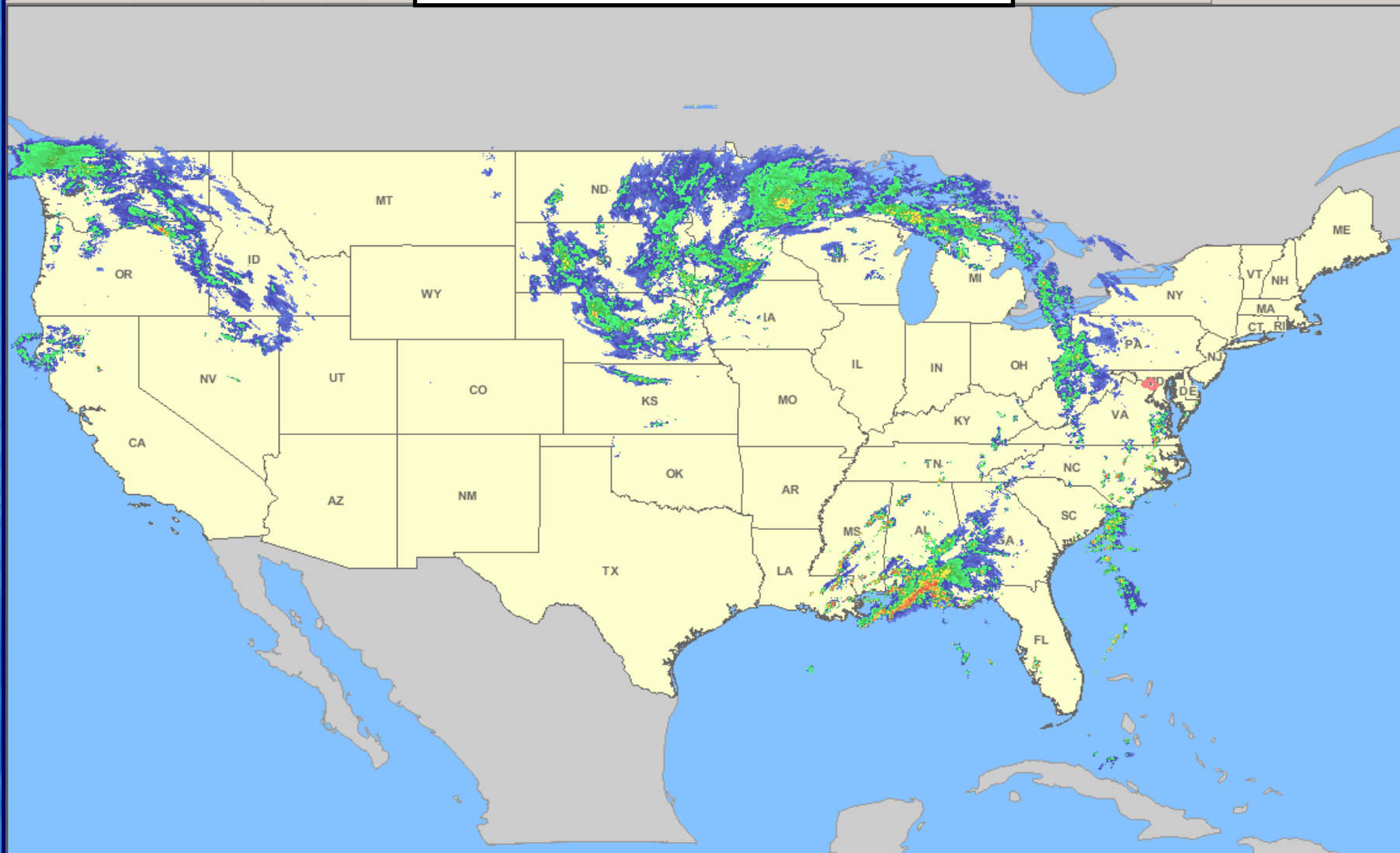
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0630-CO-AW

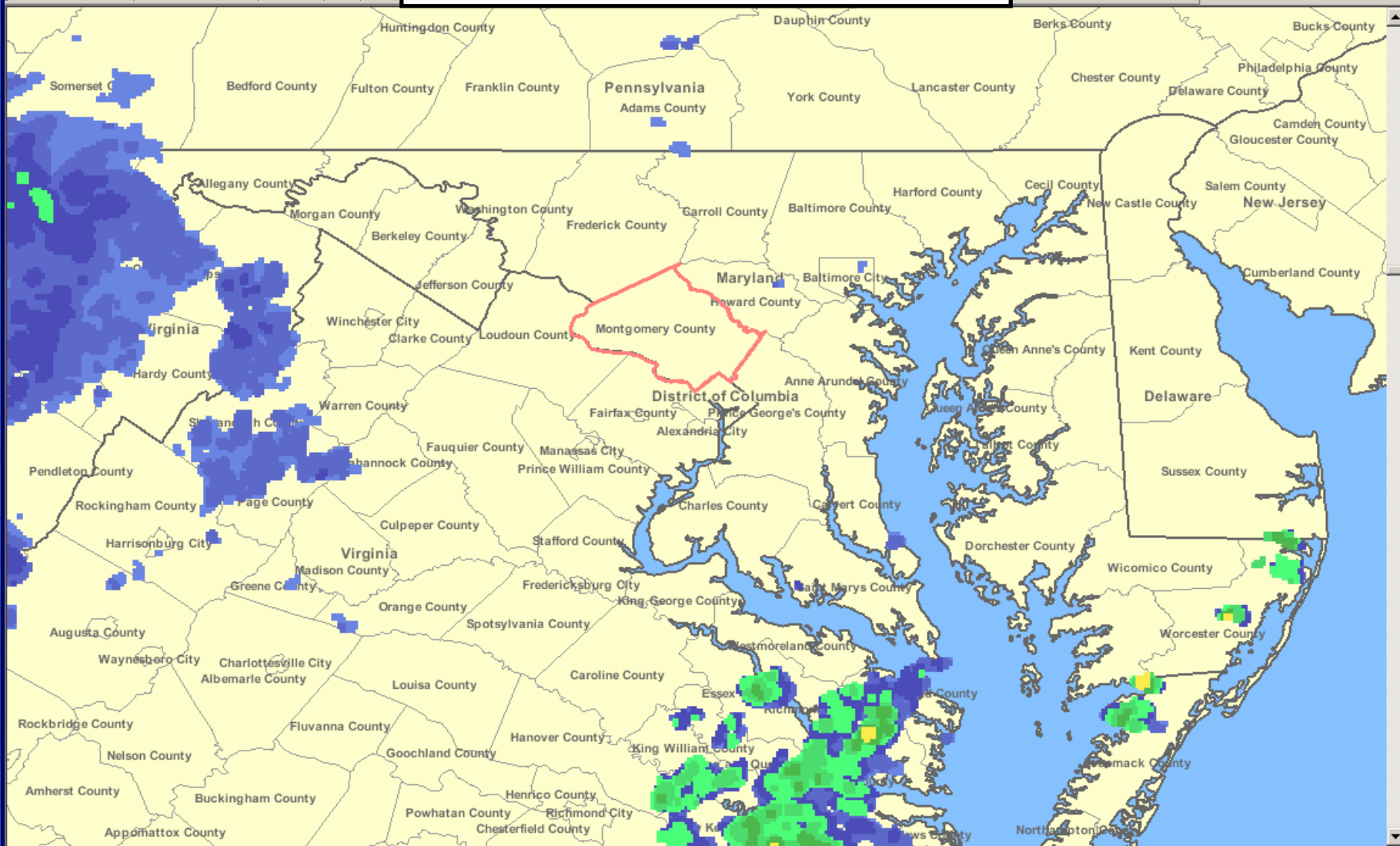
Local Forecasting

- Zoom with WeatherBug®
- Over 300 WeatherBug® stations in Metro Region
- SOC issues daily internal weather forecast at 2:00 pm

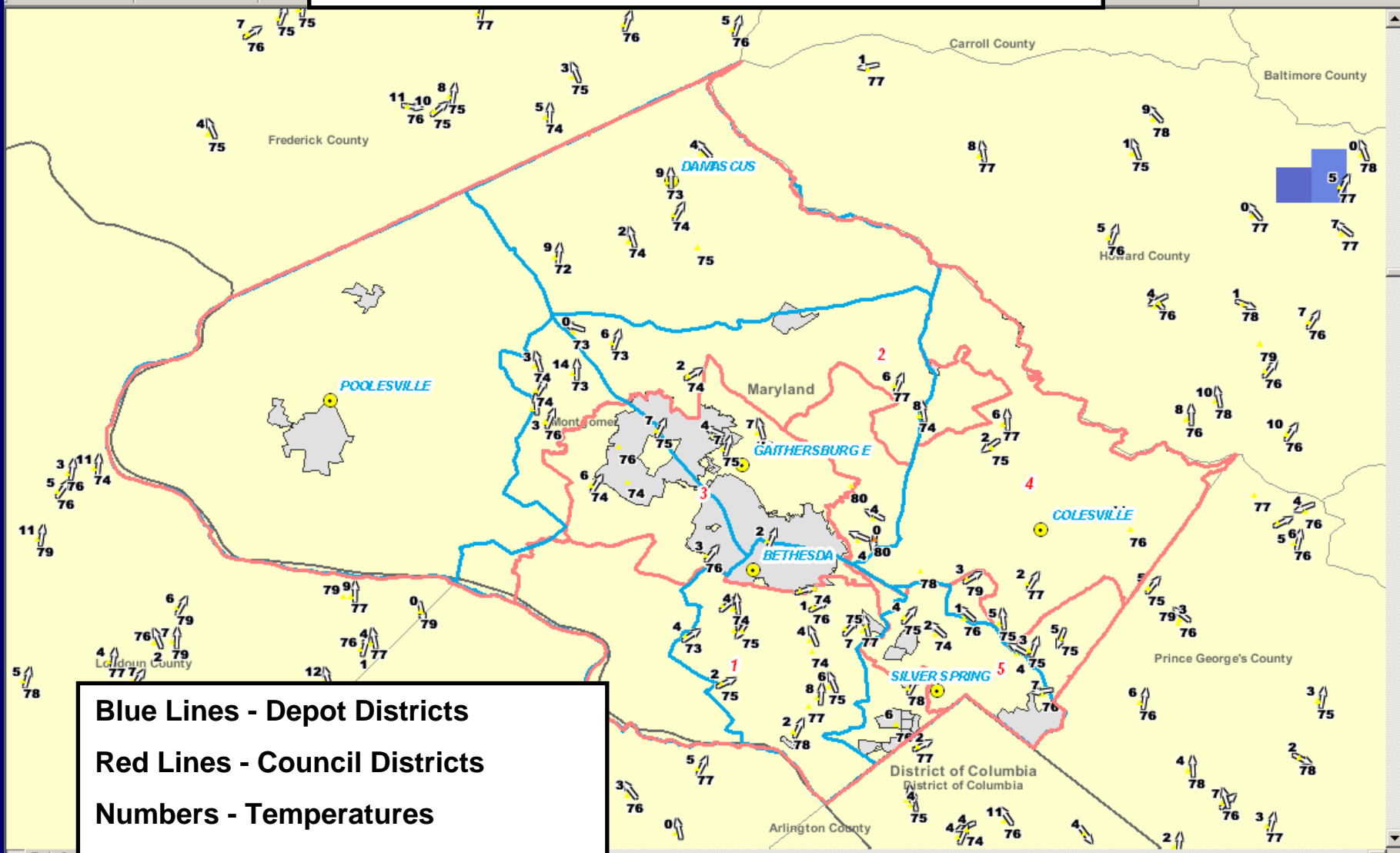
WeatherBug® GIS National Map



WeatherBug® GIS Maryland Map

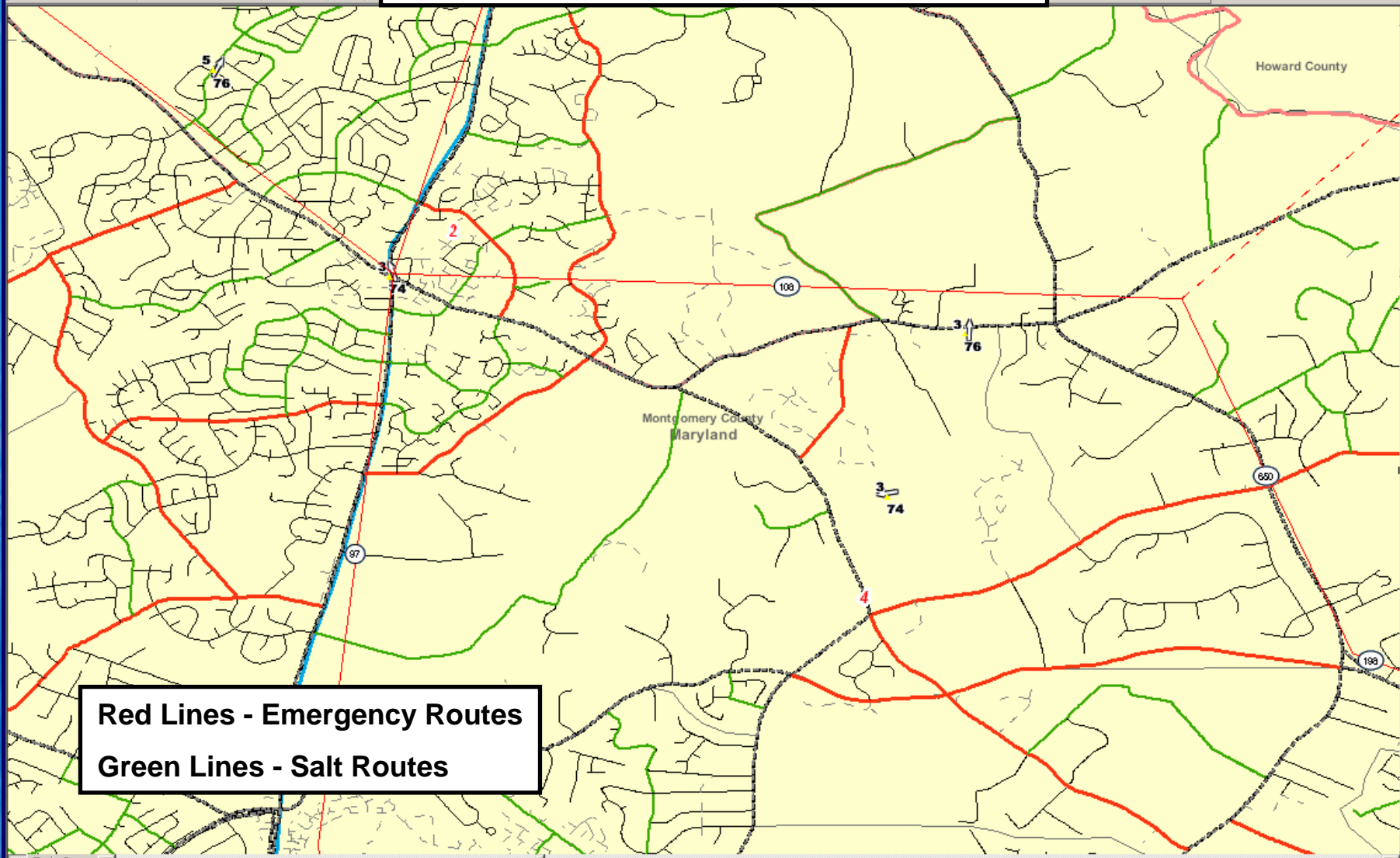


WeatherBug® GIS Montgomery County Map

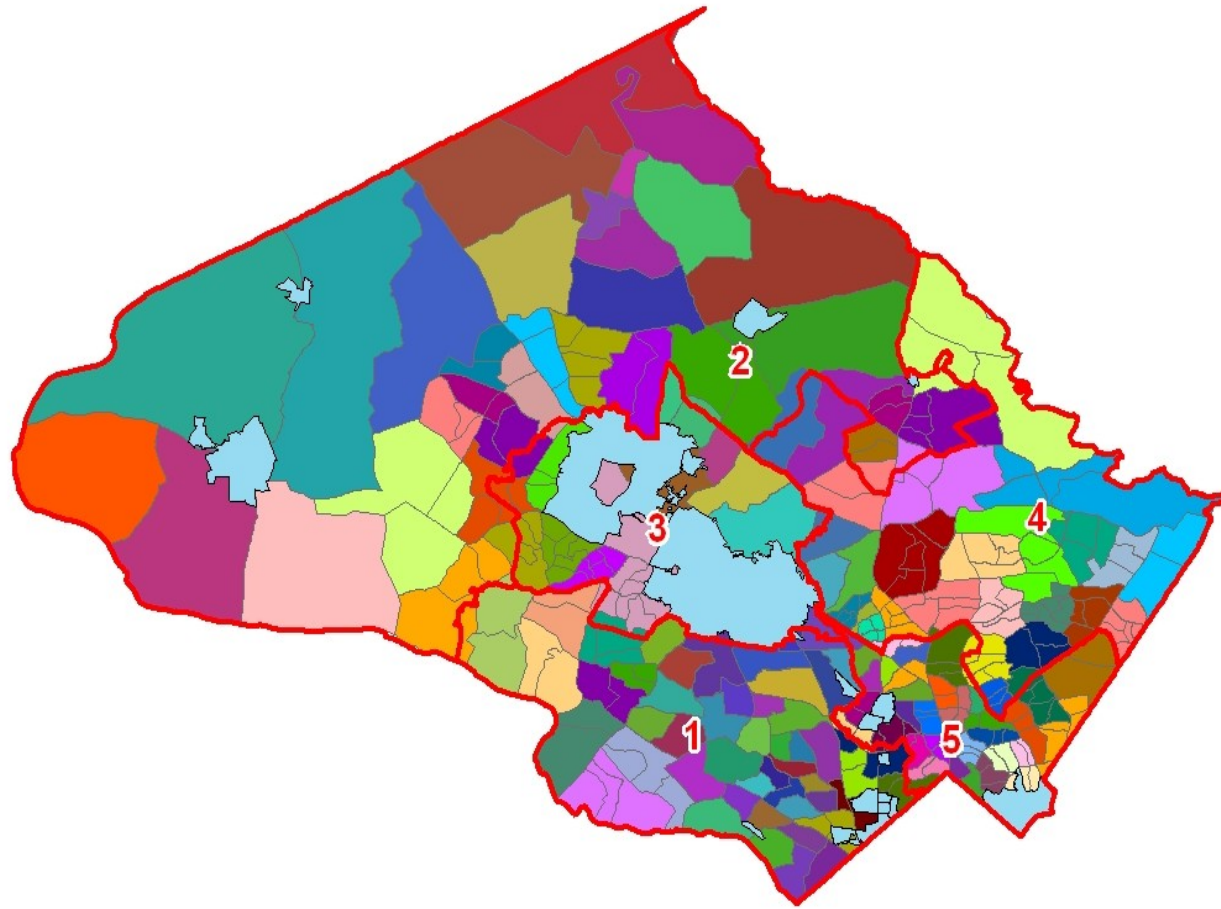


Drawing

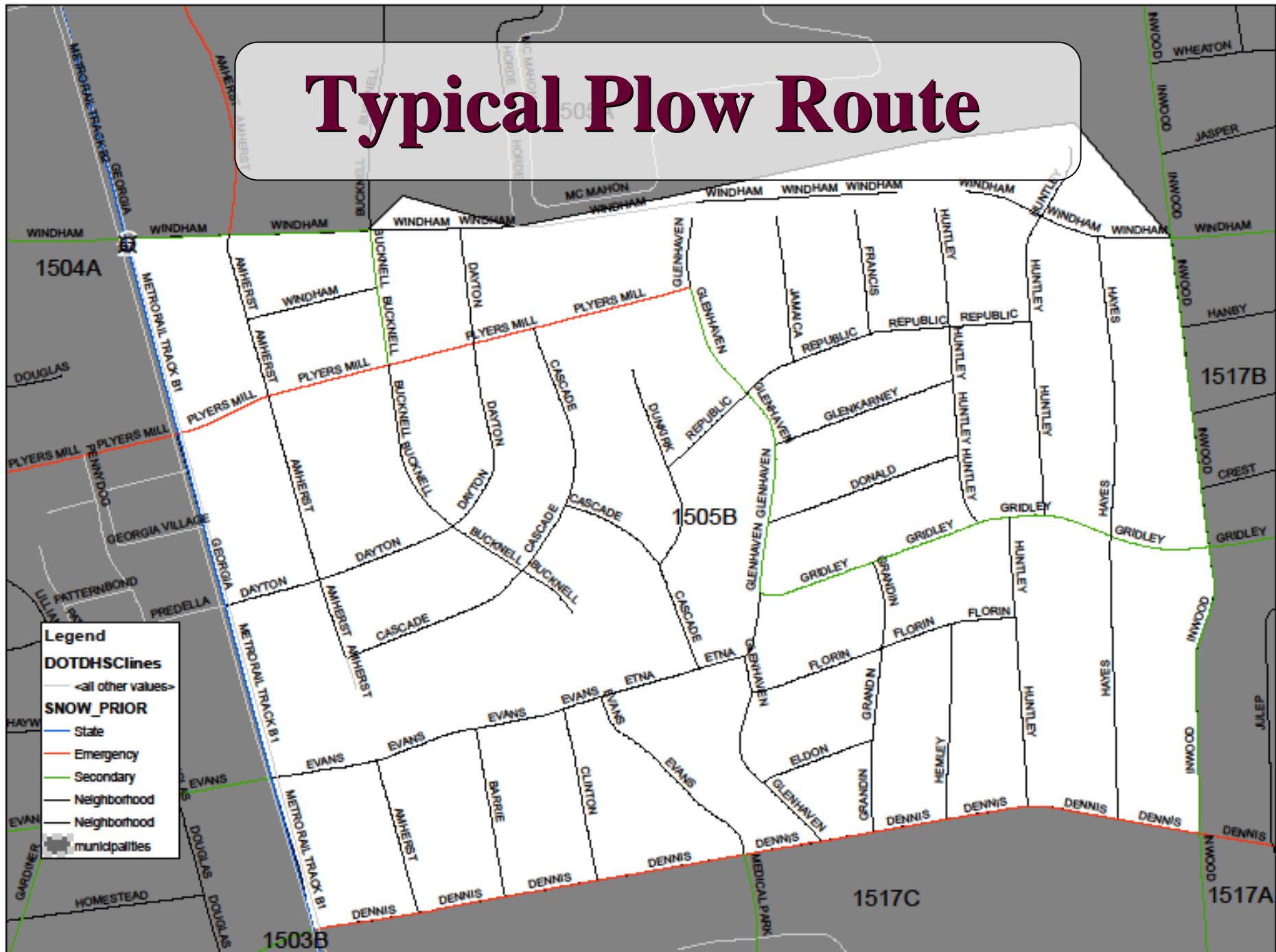
WeatherBug® GIS Snow Route Map



Countywide Snow Route Maps

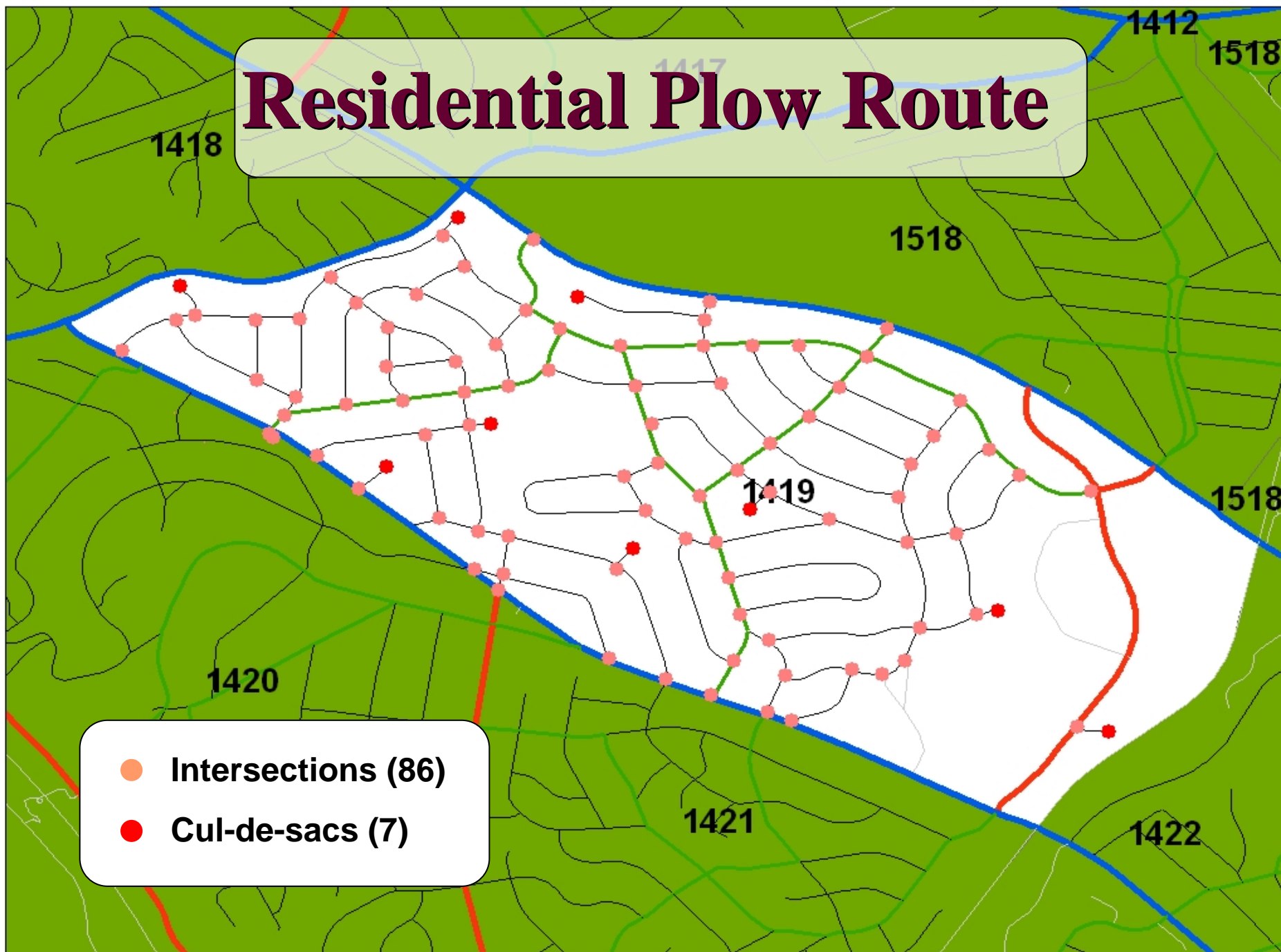


Typical Plow Route



Residential Plow Route

- Intersections (86)
- Cul-de-sacs (7)



Storm Operations

Response and Mobilization

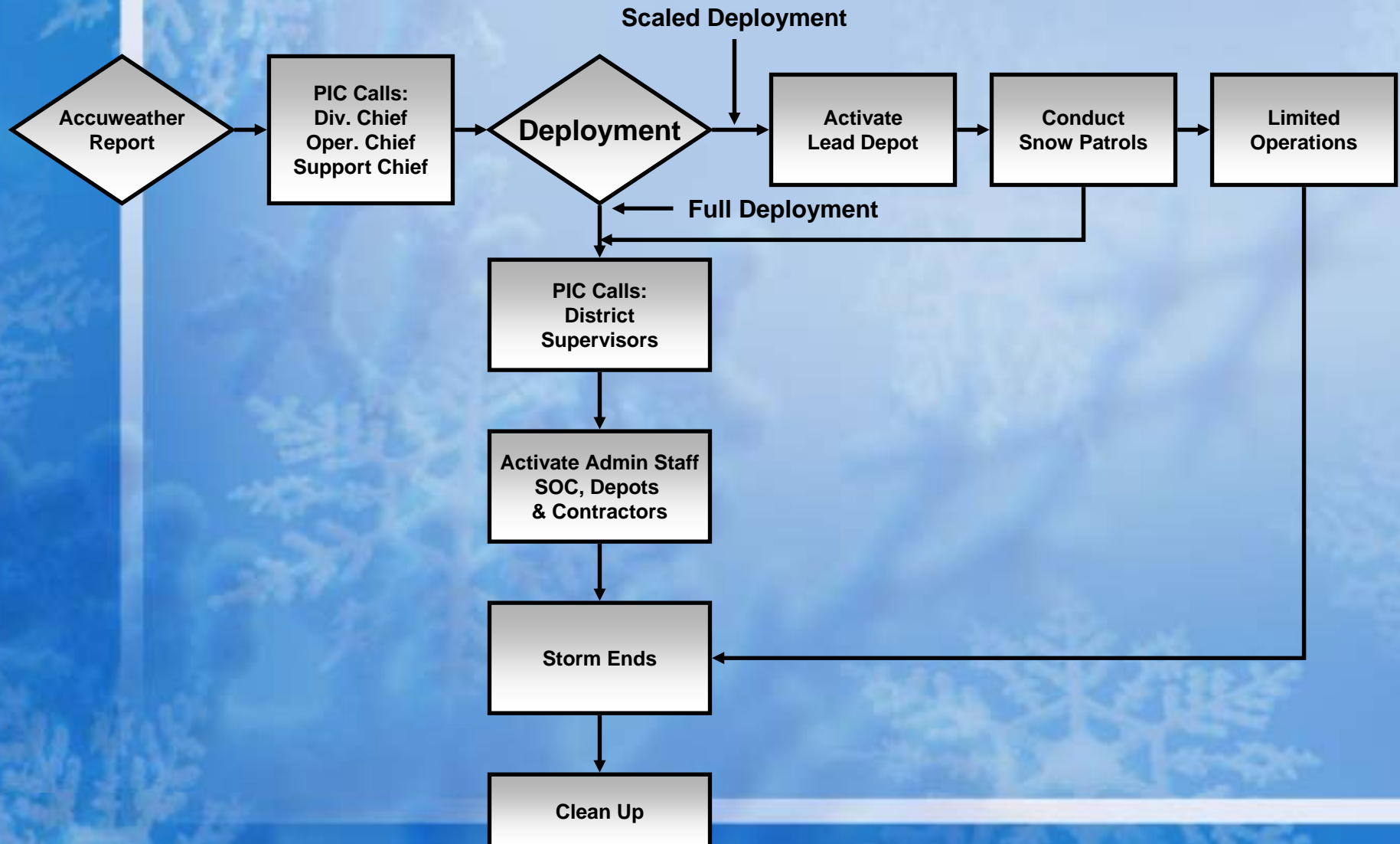
- Mobilization of County and Contract crews
- Plan I - Salting and abrasives on Emergency and Secondary salt routes
- Plan II - Tandem plowing approach to address Emergency salt routes
- Plowing Secondary salt routes
- Neighborhood Plowing



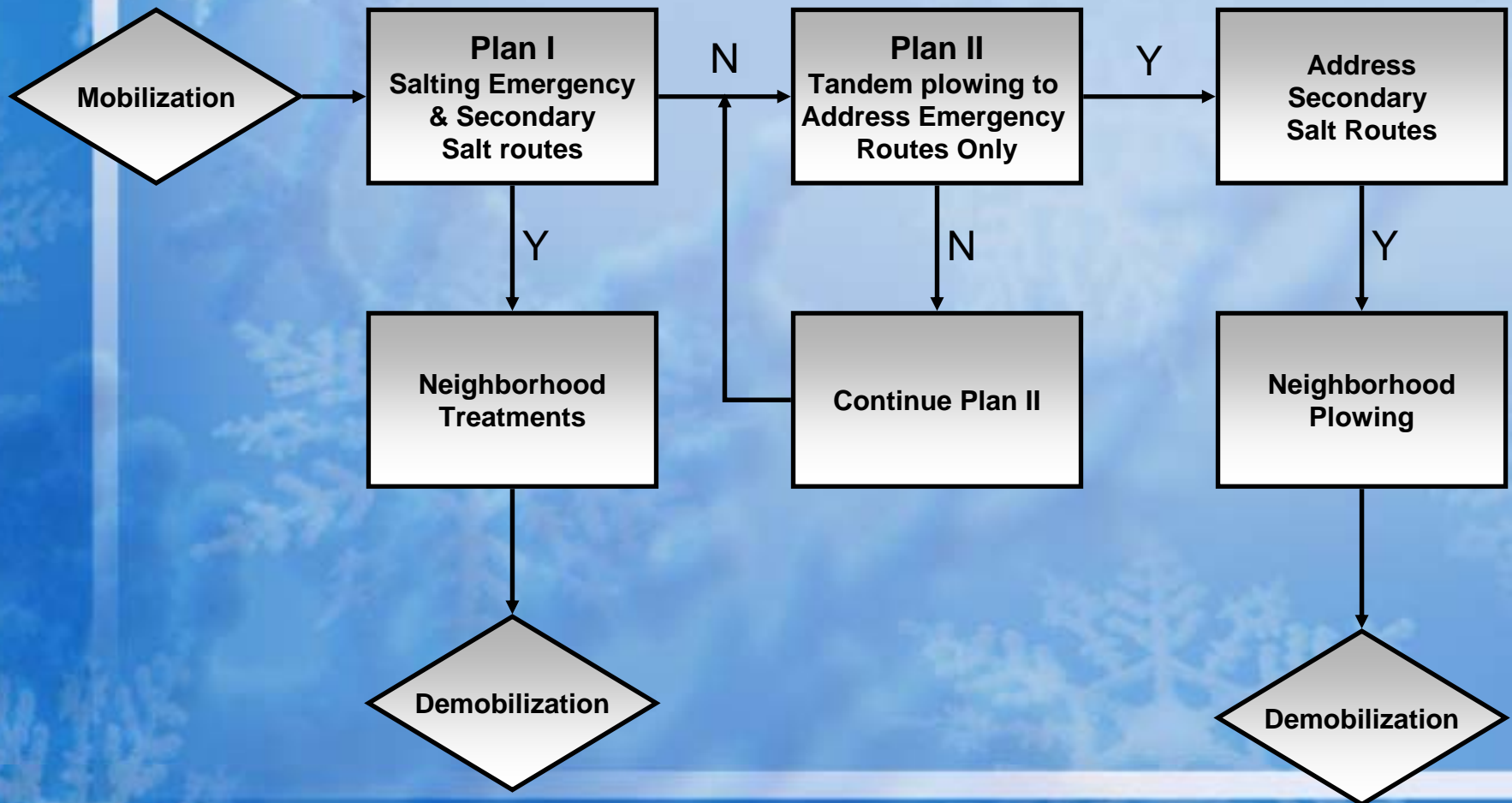
Various Scenarios

- Work Day Snow
- Multiple Snow Events (back-to-back storms)
- Emergency Callback
- Weekend Snow
 - Friday Night Snow 12-18-09
- Black Ice
- Ice Storm

After Hours PIC Activation Flowchart



Normal Activation Storm Operations Flow Chart







Snow Application

- Communication between Depots and SOC
- Track Progress
- Resource Leveling
- Map for Public Viewing

Page 1 of 2
Main Road Conditions Salt Plan2 Primary Flow Flow Snow Assistance Reports Publish Admin Logout
You are in Road Conditions !!

Page 1 of 1
Main Road Conditions Salt Plan2 Primary Flow Flow Snow Assistance Reports Publish Admin Logout
You are in plow !!

Choose Depot: Gaithersburg East Choose Pass
Number: 1 Go

Est	In Progress	Complete	ID	Depot	Start Date	End Date	Comments
Est			1101A	1	Gaithersburg 11/02/2006	11/02/2006	
Est			1102A	1	East 09:36	10:47	
Est			1103A	1	Gaithersburg 11/02/2006	11/02/2006	
Est			1104A	1	East 09:45	10:47	
Est			1105A	1	Gaithersburg 11/02/2006	11/02/2006	
Est			1106A	1	East 09:45	10:47	
Est			1107A	1	Gaithersburg 11/02/2006	11/02/2006	
Est			1108A	1	East 09:45	10:47	
Est			1109A	1	Gaithersburg 11/02/2006	11/02/2006	
Est			1110A	1	East 09:45	10:47	
Est			1111A	1	Gaithersburg 11/02/2006	11/02/2006	
Est			1112A	1	East 09:45	10:47	
Est			1113A	1	Gaithersburg 11/02/2006	11/02/2006	
Est			1114A	1	East 09:45	10:47	
Est			1115A	1	Gaithersburg 11/02/2006	11/02/2006	
Est			1116A	1	East 09:45	10:47	
Est			1117A	1	Gaithersburg 11/02/2006	11/02/2006	
Est			1118A	1	East 09:45	10:47	
Est			1119A	1	Gaithersburg 11/02/2006	11/02/2006	

Update

2006-11-07

Montgomery County Government Website

MONTGOMERY COUNTY MARYLAND

Home / Help / Site Map

RESIDENTS **GOVERNMENT** **BUSINESS** **OUTSIDE AGENCY**

How Do I...?

Highway Maintenance

Home / Snow Assistance / Snow Removal / Road Conditions / Maps / Gaithersburg / Department Home

Winter Storm Information [FAQ](#) [Help](#)

Crews have completed many plow routes and are spreading abrasives on hills, all intersections and on roads around schools. If you believe your road has not been plowed, please submit a "Report a missed street" request.

Check Status For your neighborhood

Service Request Options:

- Report a missed street
- Report malicious damage by snow plow
- Request road sanding for icy street

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The Snow Operations Center Provides Messages Based On Depot Input

Montgomery County Government Website

MONTGOMERY COUNTY MARYLAND

Home / Help / Site Map

RESIDENTS **GOVERNMENT** **BUSINESS** **OUTSIDE AGENCY**

How Do I...?

Highway Maintenance

Home / Snow Assistance / Snow Removal / Road Conditions / Maps / Gaithersburg / Department Home

Winter Storm Information

Operations Status Information

[Snow Info Home](#) [FAQ](#) [Help](#)

Street Number: Street Prefix: Street Name:

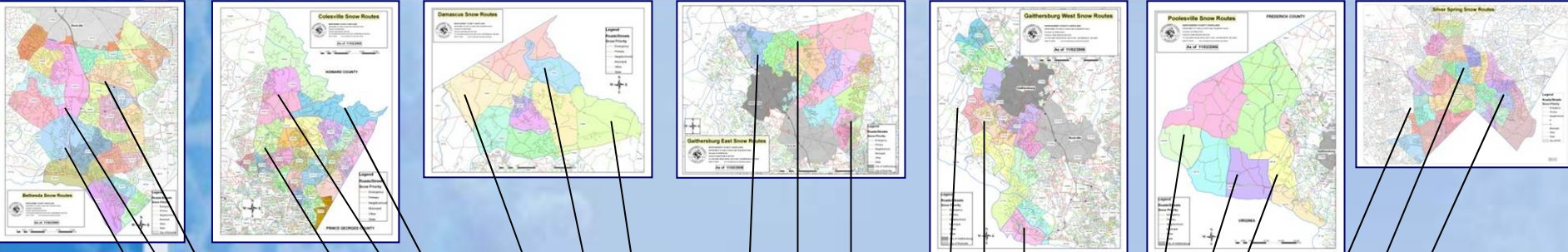
Street Type: Zip Code:

Required

Optional

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Residents can enter addresses to get plowing information.



BETHESDA
DEPOT
CLERK

COLESVILLE
DEPOT
CLERK

DAMASCUS
DEPOT
CLERK

GAITH E
DEPOT
CLERK

GAITH W
DEPOT
CLERK

POOLESVILLE
DEPOT
CLERK

SILVER SPRING
DEPOT
CLERK

**STORM OPERATIONS
CENTER**

PUBLIC

[Main](#) [Storm](#) [Road Conditions](#) [Salt](#) [Plan2](#) [Primary Plow](#) [Plow/Sanding](#) [Snow Assistance](#) [Publish](#) [LeadDepot](#) [Admin](#) [Logout](#)

You are in Neighborhood Operations (Sanding/Plow) !!

Choose Depot: Choose Pass Number: ☒ display status

[View County Wide Neighborhood Operations Status](#)

Neighborhood Operations Screen

Select an operation type for this pass

- ☐ Plow
- ☐ Sanding

Edit	In Progress	Complete	SubRoute	Pass	Type	Last Pass: Type/Status/Pass	Depot	Start Date	End Date	Comments	Authorize to publish
Edit			1401A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:34	01/08/2010 10:17		Rt 1401 Glen Tolson
Edit			1402A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:18	01/08/2010 08:34		Rt 1402 Glen Tolson
Edit			1403A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:35	01/08/2010 08:19		Rt 1403 Glen Tolson
Edit		<input type="checkbox"/>	1404A	1	Sanding	Sanding/In Progress/1	Bethesda	01/08/2010 05:31			
Edit			1405A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:50	01/08/2010 10:08		Rt 1405 Glen Tolson
Edit			1406A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:04	01/08/2010 08:36		Rt 1406 Glen Tolson
Edit			1407A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:23	01/08/2010 09:39		Rt 1407 Glen Tolson
Edit			1408A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:36	01/08/2010 10:01		Rt 1408 Glen Tolson
Edit			1409A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:30	01/08/2010 09:55		Rt 1409 Glen Tolson
Edit			1410A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:43	01/08/2010 08:09		Rt 1410 Glen Tolson
Edit			1411B	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:59	01/08/2010 09:01		Rt 1411 Glen Tolson
Edit			1412A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:53	01/08/2010 09:01		
Edit			1412B	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:30	01/08/2010 09:01		Rt 1412 Glen Tolson
Edit			1413A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:30	01/08/2010 10:19		Rt 1413 Glen Tolson
Edit			1414A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:46	01/08/2010 09:55		Rt 1414 Glen Tolson
Edit			1415A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:14	01/08/2010 10:08		Rt 1415 Glen Tolson
Edit			1416A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:36	01/08/2010 10:13		Rt 1416 Glen Tolson
Edit			1417A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:19	01/08/2010 08:34		Rt 1417 Glen Tolson
Edit			1418A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:20	01/08/2010 10:15		Rt 1418 Glen Tolson
Edit			1419A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:58	01/08/2010 10:03		Rt 1419 Glen Tolson
Edit			1420A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:58	01/08/2010 08:44		Rt 1420 Glen Tolson
Edit			1421A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:48	01/08/2010 10:49		Rt 1421 Glen Tolson
Edit			1422A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:29	01/08/2010 10:33		Rt 1422 Glen Tolson
Edit			1423A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:44	01/08/2010 10:14		Rt 1423 Glen Tolson
Edit			1424A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:48	01/08/2010 10:48		Rt 1424 Glen Tolson

Sanding Screen

Sanding

Edit	In Progress	Complete	SubRoute	Pass	Type	Last Pass: Type/Status/Pass	Depot	Start Date	End Date	Comments	Authorize to publish
Edit			1401A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:34	01/08/2010 10:17		Rt 1401 Glen Tolson
Edit			1402A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:18	01/08/2010 08:34		Rt 1402 Glen Tolson
Edit			1403A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:35	01/08/2010 08:19		Rt 1403 Glen Tolson
Edit			1404A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:31	01/11/2010 09:31		Rt 1404 <input type="checkbox"/>
Edit			1405A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:50	01/08/2010 10:08		Rt 1405 Glen Tolson
Edit			1406A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:04	01/08/2010 08:36		Rt 1406 Glen Tolson
Edit			1407A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:23	01/08/2010 09:39		Rt 1407 Glen Tolson
Edit			1408A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:36	01/08/2010 10:01		Rt 1408 Glen Tolson
Edit			1409A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:30	01/08/2010 09:55		Rt 1409 Glen Tolson
Edit			1410A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:43	01/08/2010 08:09		Rt 1410 Glen Tolson
Edit			1411B	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:59	01/08/2010 09:01		Rt 1411 Glen Tolson
Edit			1412A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:53	01/08/2010 09:01		
Edit			1412B	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:30	01/08/2010 09:01		Rt 1412 Glen Tolson
Edit			1413A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:30	01/08/2010 10:19		Rt 1413 Glen Tolson
Edit			1414A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:46	01/08/2010 09:55		Rt 1414 Glen Tolson
Edit			1415A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:14	01/08/2010 10:08		Rt 1415 Glen Tolson
Edit			1416A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:36	01/08/2010 10:13		Rt 1416 Glen Tolson
Edit			1417A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:19	01/08/2010 08:34		Rt 1417 Glen Tolson
Edit			1418A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:20	01/08/2010 10:15		Rt 1418 Glen Tolson
Edit			1419A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:58	01/08/2010 10:03		Rt 1419 Glen Tolson
Edit			1420A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:58	01/08/2010 08:44		Rt 1420 Glen Tolson
Edit			1421A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:48	01/08/2010 10:49		Rt 1421 Glen Tolson
Edit			1422A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:29	01/08/2010 10:33		Rt 1422 Glen Tolson
Edit			1423A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:44	01/08/2010 10:14		Rt 1423 Glen Tolson
Edit			1424A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:48	01/08/2010 10:48		Rt 1424 Glen Tolson
Edit			1425A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:37	01/08/2010 10:56		Rt 1425 Glen Tolson
Edit			1426A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:34	01/08/2010 08:49		Rt 1426 Glen Tolson
Edit			1427A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:34	01/08/2010 11:30	Some Plowing Required	Rt 1427 Glen Tolson
Edit			1428A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:08	01/08/2010 08:49		Rt 1428 Glen Tolson
Edit			1429A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:44	01/08/2010 11:32	plowing required	Rt 1429 Glen Tolson
Edit			1430A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:44	01/08/2010 11:27	plowing required	Rt 1430 Glen Tolson
Edit			1431A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 06:44	01/08/2010 11:21		Rt 1431 Glen Tolson
Edit			1432A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:35	01/08/2010 09:24		Rt 1432 Glen Tolson
Edit			1433A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:37	01/08/2010 10:03		Rt 1433 Glen Tolson
Edit			1434A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:37	01/08/2010 10:03		Rt 1434 Glen Tolson
Edit			1435A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:37	01/08/2010 08:17		Rt 1435 Glen Tolson
Edit			1436A	1	Sanding	Sanding/Complete/1	Bethesda	01/08/2010 05:36	01/08/2010 08:35	This is not a Route	Rt 1436 Glen Tolson

Update Status

Authorize to publish

[Main](#) [Storm](#) [Road Conditions](#) [Salt](#) [Plan2](#) [Primary Plow](#) [Plow/Sanding](#) [Snow Assistance](#) [Publish](#) [LeadDepot](#) [Admin](#) [Logout](#)

You are in Publishing !!

Publishing Screen

[Edit Message](#)

Choose Depot: All

Go

Check with depots for any route IDs in red.

Update

Edit	Start	Complete	Route ID	Status	Depot	Start Approval Date	End Approval Date	Roll Back
Edit		Glen Tolson	1401	Complete	Bethesda	1/8/2010 6:55:39 AM	1/8/2010 11:00:08 AM	
Edit		Glen Tolson	1402	Complete	Bethesda	1/8/2010 6:23:52 AM	1/8/2010 8:37:50 AM	
Edit		Glen Tolson	1403	Complete	Bethesda	1/8/2010 5:37:44 AM	1/8/2010 8:37:50 AM	
Edit		<input type="checkbox"/> Steven Suprata	1404	Start	Bethesda	1/8/2010 5:34:00 AM		
Edit		Glen Tolson	1405	Complete	Bethesda	1/8/2010 5:57:17 AM	1/8/2010 11:00:08 AM	
Edit		Glen Tolson	1406	Complete	Bethesda	1/8/2010 6:11:06 AM	1/8/2010 8:41:25 AM	
Edit		Glen Tolson	1407	Complete	Bethesda	1/8/2010 6:27:36 AM	1/8/2010 9:46:39 AM	
Edit		Glen Tolson	1408	Complete	Bethesda	1/8/2010 6:55:00 AM	1/11/2010 9:36:37 AM	
Edit		Glen Tolson	1409	Complete	Bethesda	1/8/2010 6:55:39 AM	1/8/2010 10:03:06 AM	
Edit		Glen Tolson	1410	Complete	Bethesda	1/8/2010 6:11:06 AM	1/8/2010 8:37:50 AM	
Edit		Glen Tolson	1411	Complete	Bethesda	1/8/2010 6:11:06 AM	1/8/2010 9:15:38 AM	
Edit		Glen Tolson	1413	Complete	Bethesda	1/8/2010 5:34:47 AM	1/8/2010 11:00:08 AM	
Edit		Glen Tolson	1414	Complete	Bethesda	1/8/2010 5:57:17 AM	1/8/2010 10:03:06 AM	
Edit		Glen Tolson	1415	Complete	Bethesda	1/8/2010 5:21:17 AM	1/8/2010 11:00:08 AM	
Edit		Glen Tolson	1416	Complete	Bethesda	1/8/2010 6:55:39 AM	1/8/2010 10:18:46 AM	
Edit		Glen Tolson	1417	Complete	Bethesda	1/8/2010 5:21:17 AM	1/8/2010 8:37:50 AM	

[Main](#) [Storm](#) [Road Conditions](#) [Salt](#) [Plan2](#) [Primary Plow](#) [Plow/Sanding](#) [Snow Assistance](#) [Publish](#) [LeadDepot](#) [Admin](#) [Logout](#)

You are in Publishing !!

Publishing Screen

[Edit Message](#)

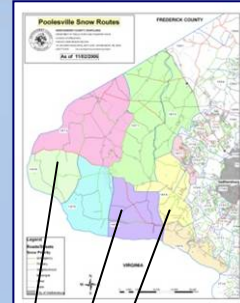
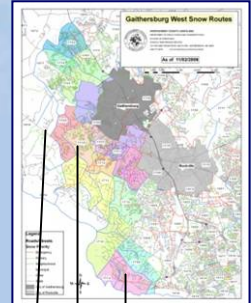
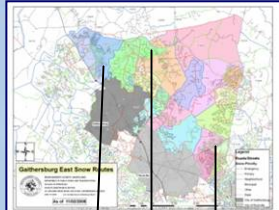
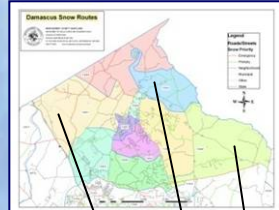
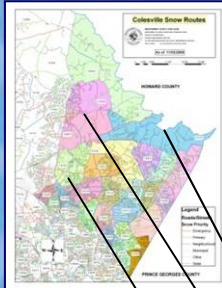
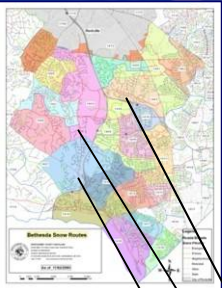
Choose Depot: All

Go

Check with depots for any route IDs in red.

[Update](#)

Edit	Start	Complete	Route ID	Status	Depot	Start Approval Date	End Approval Date	Roll Back
Edit		Glen Tolson	1401	Complete	Bethesda	1/8/2010 6:55:39 AM	1/8/2010 11:00:08 AM	
Edit		Glen Tolson	1402	Complete	Bethesda	1/8/2010 6:23:52 AM	1/8/2010 8:37:50 AM	
Edit		Glen Tolson	1403	Complete	Bethesda	1/8/2010 5:37:44 AM	1/8/2010 8:37:50 AM	
Edit		Steven Suprata	1404	Complete	Bethesda	1/8/2010 5:34:00 AM	1/8/2010 9:53:00 AM	
Edit		Glen Tolson	1405	Complete	Bethesda	1/8/2010 5:57:17 AM	1/8/2010 11:00:08 AM	
Edit		Glen Tolson	1406	Complete	Bethesda	1/8/2010 6:11:06 AM	1/8/2010 8:41:25 AM	
Edit		Glen Tolson	1407	Complete	Bethesda	1/8/2010 6:27:36 AM	1/8/2010 9:46:39 AM	
Edit		Glen Tolson	1408	Complete	Bethesda	1/8/2010 6:55:00 AM	1/11/2010 9:36:37 AM	
Edit		Glen Tolson	1409	Complete	Bethesda	1/8/2010 6:55:39 AM	1/8/2010 10:03:06 AM	
Edit		Glen Tolson	1410	Complete	Bethesda	1/8/2010 6:11:06 AM	1/8/2010 8:37:50 AM	
Edit		Glen Tolson	1411	Complete	Bethesda	1/8/2010 6:11:06 AM	1/8/2010 9:15:38 AM	
Edit		Glen Tolson	1413	Complete	Bethesda	1/8/2010 5:34:47 AM	1/8/2010 11:00:08 AM	
Edit		Glen Tolson	1414	Complete	Bethesda	1/8/2010 5:57:17 AM	1/8/2010 10:03:06 AM	
Edit		Glen Tolson	1415	Complete	Bethesda	1/8/2010 5:21:17 AM	1/8/2010 11:00:08 AM	
Edit		Glen Tolson	1416	Complete	Bethesda	1/8/2010 6:55:39 AM	1/8/2010 10:18:46 AM	
Edit		Glen Tolson	1417	Complete	Bethesda	1/8/2010 5:21:17 AM	1/8/2010 8:37:50 AM	



BETHESDA
DEPOT
CLERK

COLESVILLE
DEPOT
CLERK

DAMASCUS
DEPOT
CLERK

GAITH E
DEPOT
CLERK

GAITH W
DEPOT
CLERK

POOLESVILLE
DEPOT
CLERK

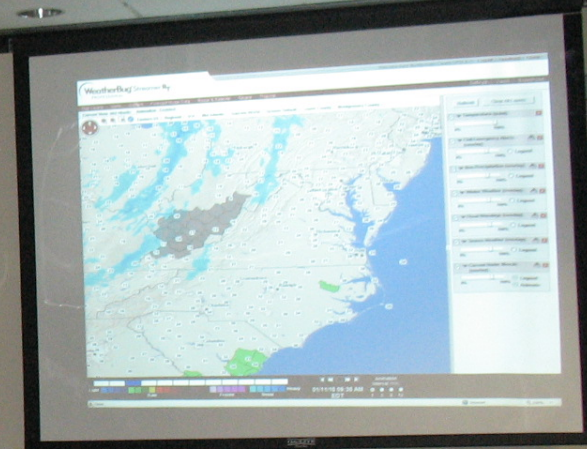
SILVER SPRING
DEPOT
CLERK

**STORM OPERATIONS
CENTER**

PUBLIC

Storm Operations Center

- Evaluate progress and field conditions through Snow Application
- Observe real-time weather and pavement conditions
- Division Chief and Managers confer on operations
- Storm Operations Manager coordinates information with other entities
- Directives issued to the field
- Interfaces with: public, web site, multi-media interviews, Customer Service Center, Snow Application map



SOC MANAGER



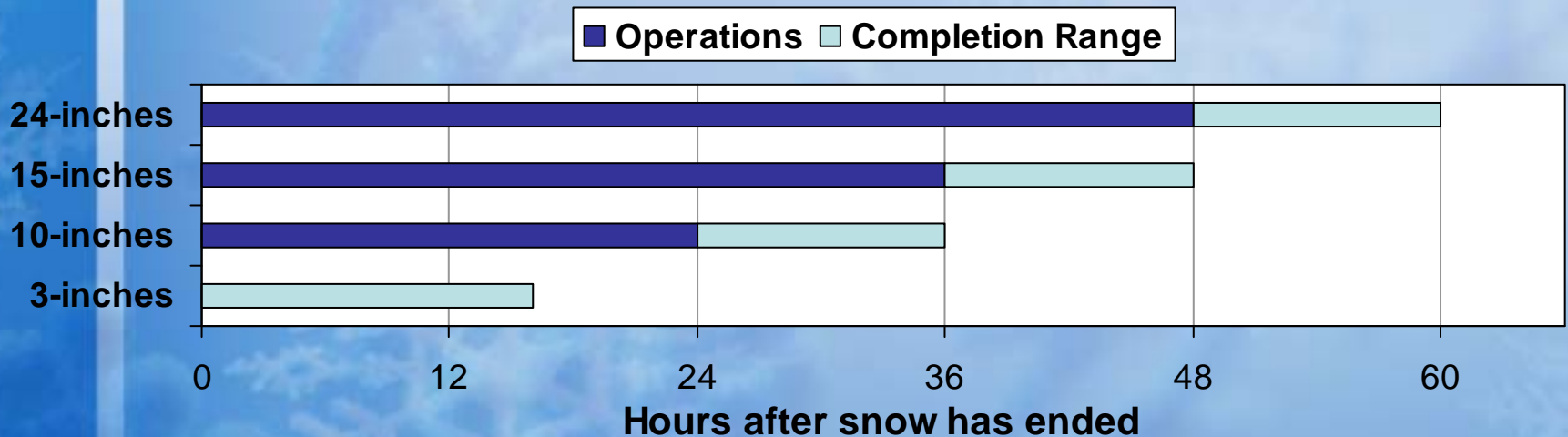
Projected screen displaying a data table with columns: ID, Name, Position, Status, Location, and Date. The table lists various personnel and their assignments.

ID	Name	Position	Status	Location	Date
1001	John Doe	Officer	Available	Station 1	2023-10-26
1002	Jane Smith	Officer	Available	Station 2	2023-10-26
1003	Mike Johnson	Officer	Available	Station 3	2023-10-26
1004	Sarah Brown	Officer	Available	Station 4	2023-10-26
1005	David Wilson	Officer	Available	Station 5	2023-10-26
1006	Emily Davis	Officer	Available	Station 6	2023-10-26
1007	Chris Miller	Officer	Available	Station 7	2023-10-26
1008	Alexander Lee	Officer	Available	Station 8	2023-10-26
1009	Olivia White	Officer	Available	Station 9	2023-10-26
1010	Benjamin Green	Officer	Available	Station 10	2023-10-26



Treatment and Plow Time Frame

- After storm has ended, crews continue operations with completion expectations as shown below:



- The type of snow (wet or powdery), the ambient temperatures and road temperatures, as well as wind conditions, **will** alter the timeline.

Tiered Demobilization

- Careful assessment of countywide road conditions and weather forecast
- Reduce support as appropriate
- Scale back depot resources
- Activate Lead Depot

Assessments

- Condition of equipment and facilities
- Status of county personnel
- Status of contract resources
- Material inventory
- Weather forecasts
- Readiness for next event

Debriefing

- County Executive
- Chief Administrative Officer
- Assistant Chief Administrative Officer
- Department Director
- Department Deputy Director
- DOT Division Chiefs
- Public Information Officer



Debriefing

- Management
- District Supervisors
- Inspection staff and contractors
- Call Center
- Review customer feedback
- Self assessment



Post Storm Activities

- QA/QC storm cleanup
- Inspect storm drainage
- Storm drain clean out
- Replace mailbox knock downs (if any)
- Activate pot hole trucks
- Check intersections
- Prepare for next storm